

## Refine Search

### Search Results -

Terms	Documents
plurality near document type definition\$1	8

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L12

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Saturday, January 07, 2006   [Printable Copy](#)   [Create Case](#)

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L12</u>	plurality near document type definition\$1	8	<u>L12</u> ←
<u>L11</u>	plurality near document type definition	8	<u>L11</u>
<u>L10</u>	set\$1 near of near DTD\$1	0	<u>L10</u>
<u>L9</u>	set\$1 near DTD\$1	107	<u>L9</u>
<u>L8</u>	set near DTD\$1	107	<u>L8</u>
<u>L7</u>	plurality near DTD\$1	17	<u>L7</u>
<u>L6</u>	DTD near select\$4	34	<u>L6</u>
<u>L5</u>	L2 and (set near DTD)	9	<u>L5</u>
<u>L4</u>	L3 and (set near DTD)	6	<u>L4</u>
<u>L3</u>	L2 and XML	93	<u>L3</u>
<u>L2</u>	DTD same selection	167	<u>L2</u>
<u>L1</u>	6,519,617.pn.	2	<u>L1</u>

END OF SEARCH HISTORY

10/023,440

## Hit List

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Search Results - Record(s) 1 through 17 of 17 returned.

☐ 1. Document ID: US 20050256965 A1

Using default format because multiple data bases are involved.

L7: Entry 1 of 17

File: PGPB

Nov 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050256965

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050256965 A1

TITLE: Intellectual asset protocol for defining data exchange rules and formats for universal intellectual asset documents, and systems, methods, and computer program products related to same

PUBLICATION-DATE: November 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hohmann, Luke	Mountain View	CA	US
Rappaport, Irving S.	Palo Alto	CA	US
Schnitz, Matthew	Mountain View	CA	US
Rosenquist, Brent	Mountain View	CA	US
Jackson, Adam	Sunnyvale	CA	US

US-CL-CURRENT: 709/230

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 2. Document ID: US 20050131906 A1

L7: Entry 2 of 17

File: PGPB

Jun 16, 2005

PGPUB-DOCUMENT-NUMBER: 20050131906

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050131906 A1

TITLE: Method and apparatus for managing data written in markup language and computer-readable recording medium for recording a program

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 3. Document ID: US 20030229852 A1

L7: Entry 3 of 17

File: PGPB

Dec 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030229852

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030229852 A1

TITLE: Document processing system, method and program

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 20030074636 A1

L7: Entry 4 of 17

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030074636

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030074636 A1

TITLE: Enabling easy generation of XML documents from XML specifications

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 20020147747 A1

L7: Entry 5 of 17

File: PGPB

Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020147747

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020147747 A1

TITLE: System for converting data to a markup language

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 20020065814 A1

L7: Entry 6 of 17

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020065814

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020065814 A1

TITLE: Method and apparatus for searching and displaying structured document

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 7. Document ID: US 20010014899 A1

L7: Entry 7 of 17

File: PGPB

Aug 16, 2001

PGPUB-DOCUMENT-NUMBER: 20010014899

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010014899 A1

TITLE: Structural documentation system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 8. Document ID: US 6963920 B1

L7: Entry 8 of 17

File: USPT

Nov 8, 2005

US-PAT-NO: 6963920

DOCUMENT-IDENTIFIER: US 6963920 B1

TITLE: Intellectual asset protocol for defining data exchange rules and formats for universal intellectual asset documents, and systems, methods, and computer program products related to same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 9. Document ID: US 6938079 B1

L7: Entry 9 of 17

File: USPT

Aug 30, 2005

US-PAT-NO: 6938079

DOCUMENT-IDENTIFIER: US 6938079 B1

TITLE: System and method for automatically configuring a client device

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 10. Document ID: US 6757720 B1

L7: Entry 10 of 17

File: USPT

Jun 29, 2004

US-PAT-NO: 6757720

DOCUMENT-IDENTIFIER: US 6757720 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Profile service architecture

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 11. Document ID: US 6542515 B1

L7: Entry 11 of 17

File: USPT

Apr 1, 2003

US-PAT-NO: 6542515

DOCUMENT-IDENTIFIER: US 6542515 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Profile service

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 12. Document ID: US 4893306 A

L7: Entry 12 of 17

File: USPT

Jan 9, 1990

US-PAT-NO: 4893306

DOCUMENT-IDENTIFIER: US 4893306 A

TITLE: Method and apparatus for multiplexing circuit and packet traffic

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 13. Document ID: US 4855999 A

L7: Entry 13 of 17

File: USPT

Aug 8, 1989

US-PAT-NO: 4855999

DOCUMENT-IDENTIFIER: US 4855999 A

**\*\* See image for Certificate of Correction \*\***

TITLE: DTDM multiplexer with cross-point switch

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 14. Document ID: US 4833673 A

L7: Entry 14 of 17

File: USPT

May 23, 1989

US-PAT-NO: 4833673

DOCUMENT-IDENTIFIER: US 4833673 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Time division multiplexer for DTDM bit streams

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 15. Document ID: US 4833671 A

L7: Entry 15 of 17

File: USPT

May 23, 1989

US-PAT-NO: 4833671

DOCUMENT-IDENTIFIER: US 4833671 A

**\*\* See image for Certificate of Correction \*\***

TITLE: DTDM multiplexing circuitry

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sentence	Abstract	Claims	KWIC	Draw. De
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☐ 16. Document ID: US 4819226 A

L7: Entry 16 of 17

File: USPT

Apr 4, 1989

US-PAT-NO: 4819226

DOCUMENT-IDENTIFIER: US 4819226 A

TITLE: Frammer circuit for use in a DTDM network

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sentence	Abstract	Claims	KWIC	Draw. De
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☐ 17. Document ID: JP 2003256264 A

L7: Entry 17 of 17

File: JPAB

Sep 10, 2003

PUB-NO: JP02003256264A

DOCUMENT-IDENTIFIER: JP 2003256264 A

TITLE: DOCUMENT PROCESSING SYSTEM, DOCUMENT PROCESSING METHOD AND PROGRAM

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sentence	Abstract	Claims	KWIC	Draw. De
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plurality near DTD\$1

17

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### 1 [DTD inference for views of XML data](#)



Yannis Papakonstantinou, Victor Vianu

 May 2000 **Proceedings of the nineteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Publisher: ACM Press

Full text available: pdf(347.61 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We study the inference of Data Type Definitions (DTDs) for views of XML data, using an abstraction that focuses on document content structure. The views are defined by a query language that produces a list of documents selected from one or more input sources. The selection conditions involve vertical and horizontal navigation, thus querying explicitly the order present in input documents. We point several strong limitations in the descriptive ability of current DTDs and the need for extendi ...

### 2 [Secure and selective dissemination of XML documents](#)



Elisa Bertino, Elena Ferrari

 August 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 3

Publisher: ACM Press

Full text available: pdf(678.34 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XML (*eXtensible Markup Language*) has emerged as a prevalent standard for document representation and exchange on the Web. It is often the case that XML documents contain information of different sensitivity degrees that must be selectively shared by (possibly large) user communities. There is thus the need for models and mechanisms enabling the specification and enforcement of access control policies for XML documents. Mechanisms are also required enabling a secure and selective dissemina ...

**Keywords:** Access control, XML, secure distribution

### 3 [Research session: XML query processing #4: Query translation from XPATH to SQL in the presence of recursive DTDs](#)

Wenfei Fan, Jeffrey Xu Yu, Hongjun Lu, Jianhua Lu, Rajeev Rastogi

 August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available:  [pdf\(281.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The interaction between recursion in XPATH and recursion in DTDS makes it challenging to answer XPATH queries on XML data that is stored in an RDBMS via schema-based shredding. We present a new approach to translating XPATH queries into SQL queries with a simple least fixpoint (LFP) operator, which is already supported by most commercial RDBMS. The approach is based on our algorithm for rewriting XPATH queries into regular XPATH expressions, which are capable of capturing both DTD recursion and ...

#### 4 Document creation II: Techniques for authoring complex XML documents



Vincent Quint, Irène Vattion

October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

**Publisher:** ACM Press

Full text available:  [pdf\(265.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper reviews the main innovations of XML and considers their impact on the editing techniques for structured documents. Namespaces open the way to compound documents; well-formedness brings more freedom in the editing task; CSS allows style to be associated easily with structured documents. In addition to these innovative features the wide deployment of XML introduces structured documents in many new applications including applications where text is not the dominant content type. In lan ...


**Keywords:** CSS, XML, authoring tools, compound documents, direct manipulation, structured editing, style languages

#### 5 Static analysis of XSLT programs

Ce Dong, James Bailey

January 2004 **Proceedings of the fifteenth conference on Australasian database - Volume 27 CRPIT '04**

**Publisher:** Australian Computer Society, Inc.

Full text available:  [pdf\(370.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

XML is becoming the dominant standard for representing and exchanging data on the World Wide Web. The ability to transform and present data in XML is crucial and XSLT (Extensible Stylesheet Language Transformations) is the principal programming language that supports this activity. Methods for analysis of XSLT programs are currently an important open issue. In this paper, we discuss new methods for analysing XSLT programs, which return information about *reachability*, *invalid calling relations* ...

**Keywords:** XML, XSLT, termination analysis

#### 6 Views in a large-scale XML repository

Vincent Aguilera, Sophie Cluet, Tova Milo, Pierangelo Veltri, Dan Vodislav

November 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 3

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [pdf\(241.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We are interested in defining and querying views in a huge and highly heterogeneous XML repository (Web scale). In this context, view definitions are very large, involving lots of sources, and there is no apparent limitation to their size. This raises interesting problems that we address in the paper: (i) how to distribute views over several machines without having a negative impact on the query translation process; (ii) how to quickly select the relevant part of a view given a query; (iii) how ...



**Keywords:** Query evaluation, Semantic integration, Views, Warehouse, XML

7 Secure Data Publishing and Certificate Management: Flexible authentication of XML documents



P. Devanbu, M. Gertz, A. Kwong, C. Martel, G. Nuckolls, S. G. Stubblebine  
November 2001 **Proceedings of the 8th ACM conference on Computer and Communications Security**

**Publisher:** ACM Press

Full text available: pdf(219.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

XML is increasingly becoming the format of choice for information exchange, in critical areas such as government, finance, healthcare and law, where integrity is of the essence. As this trend grows, one can expect that documents (or collections thereof) may get quite large, and clients may wish to query for specific segments of these documents. In critical applications, clients must be assured that they are getting complete and correct answers to their queries. Existing methods for signing XML d ...

8 Graph-based GUIs for querying XML data: the XML-GL experience



S. Comai  
March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**

**Publisher:** ACM Press

Full text available: pdf(202.95 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

9 Controlled access and dissemination of XML documents



Elisa Bertino, Silvana Castano, Elena Ferrari, Marco Mesiti  
November 1999 **Proceedings of the 2nd international workshop on Web information and data management**

**Publisher:** ACM Press

Full text available: pdf(758.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

XML (eXtensible Markup Language) is becoming the most relevant standardization effort in the area of document representation through markup languages. Through XML, it is possible to define complex documents, containing information at different degrees of sensitivity. Moreover, the processes of document exchange and acquisition, which can be very frequent in Web-based information systems, are simplified and standardized. In this scenario, there is a strong need for policies ...

10 Access control for XML document: Generalized XML security views



Gabriel Kuper, Fabio Massacci, Nataliya Rassadko  
June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies**

**Publisher:** ACM Press

Full text available: pdf(168.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We investigate a generalization of the notion of XML security view introduced by Stoica and Farkas [17] and later refined by Fan et al. [8]. The model consists of access control policies specified over DTDs with XPath expression for data-dependent access control policies. We provide the notion of *security views* for characterizing information accessible to authorized users. This is a transformed (sanitized) DTD schema that can be used by users for query formulation and optimization. Then w ...

**Keywords:** XML access control, XML views, XPath

### 11 Ontology-supported and ontology-driven conceptual navigation on the World Wide



Web

Michel Crampes, Sylvie Ranwez

May 2000 **Proceedings of the eleventh ACM on Hypertext and hypermedia**

**Publisher:** ACM Press

Full text available: pdf(198.01 KB) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

**Keywords:** WWW, XML, adaptive hypertext, conceptual navigation, metadata, narration, ontology, time optimization

### 12 XTRACT: a system for extracting document type descriptors from XML documents



Minos Garofalakis, Aristides Gionis, Rajeev Rastogi, S. Seshadri, Kyuseok Shim

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2

**Publisher:** ACM Press

Full text available: pdf(209.66 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

XML is rapidly emerging as the new standard for data representation and exchange on the Web. An XML document can be accompanied by a *Document Type Descriptor* (DTD) which plays the role of a schema for an XML data collection. DTDs contain valuable information on the structure of documents and thus have a crucial role in the efficient storage of XML data, as well as the effective formulation and optimization of XML queries. In this paper, we propose XTRACT, a novel system for inferring a ...

### 13 What makes the differences: benchmarking XML database implementations



Hongjun Lu, Jeffrey Xu Yu, Guoren Wang, Shihui Zheng, Haifeng Jiang, Ge Yu, Aoying Zhou

February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

**Publisher:** ACM Press

Full text available: pdf(589.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML is emerging as a major standard for representing data on the World Wide Web. Recently, many XML storage models have been proposed to manage XML data. In order to assess an XML database's abilities to deal with XML queries, several benchmarks have also been proposed, including XMark and XMach. However, no reported studies using those benchmarks were found that can provide users with insights on the impacts of a variety of storage models on XML query performance. In this article, we report our ...

**Keywords:** XML query processing, XML storage model, benchmark

### 14 A data modeling approach to the seamless information exchange among structured documents and databases



Atsuyuki Morishima, Hiroyuki Kitagawa

April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**

**Publisher:** ACM Press

Full text available: pdf(916.63 KB) Additional Information: [full citation](#), [index terms](#)

**Keywords:** data models, heterogeneous information resource management,

multidatabase system, structured documents

15 Highly personalized information delivery to mobile clients

Bahattin Ozen, Ozgur Kilic, Mehmet Altinel, Asuman Dogac

November 2004 **Wireless Networks**, Volume 10 Issue 6

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(924.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The inherent limitations of mobile devices necessitate information to be delivered to mobile clients to be highly personalized according to their profiles. This information may be coming from a variety of resources like Web servers, company intranets, email servers. A critical issue for such systems is scalability, that is, the performance of the system should be in acceptable limits when the number of users increases dramatically. Another important issue is being able to express highly perso ...

**Keywords:** information delivery to mobile devices, personalization, query indexing, querying XML documents, user profiles

16 Specialization in DITA: technology, process, & policy



Michael Priestley, David A. Schell

October 2002 **Proceedings of the 20th annual international conference on Computer documentation**

**Publisher:** ACM Press

Full text available:  pdf(306.92 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

DITA is an architecture for creating topic-oriented, information-typed content that can be reused and single-sourced in a variety of ways. It is also an architecture for creating new information types and describing new information domains, allowing groups to create very specific, targeted document type definitions using a process called specialization, while at the same time reusing common output transforms and design rules. Specialization provides a way to reconcile the needs for centralized co ...

**Keywords:** DITA, Darwin, XML, XML architectures, XSLT, domains, information architecture, information management, information typing, ontologies, policy, process, specialization

17 Editing and authoring: Handling syntactic constraints in a DTD-compliant XML editor



Y. S. Kuo, Jasper Wang, N. C. Shih

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

**Publisher:** ACM Press

Full text available:  pdf(363.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

By exploiting the theories of automata and graphs, we propose algorithms and a process for editing valid XML documents [4][5]. The editing process avoids syntactic violations altogether, thus freeing the user from any syntactic concerns. Based on the proposed algorithms and process, we build an XML editor with forms as its user interface.


**Keywords:** XML editor, automata theory, regular expression

18 Haskell and XML: generic combinators or type-based translation?

Malcolm Wallace, Colin Runciman

 September 1999 **ACM SIGPLAN Notices , Proceedings of the fourth ACM SIGPLAN international conference on Functional programming ICFP '99**, Volume 34 Issue 9

**Publisher:** ACM Press

Full text available:  pdf(1.48 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present two complementary approaches to writing XML document-processing applications in a functional language. In the first approach, the generic tree structure of XML documents is used as the basis for the design of a library of combinators for generic processing: selection, generation, and transformation of XML trees. The second approach is to use a type-translation framework for treating XML document type definitions (DTDs) as declarations of algebraic data types, and a derivation of the cor ...

## 19 [Path sharing and predicate evaluation for high-performance XML filtering](#)

 Yanlei Diao, Mehmet Altinel, Michael J. Franklin, Hao Zhang, Peter Fischer  
December 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(543.40 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


XML filtering systems aim to provide fast, on-the-fly matching of XML-encoded data to large numbers of query specifications containing constraints on both structure and content. It is now well accepted that approaches using event-based parsing and Finite State Machines (FSMs) can provide the basis for highly scalable structure-oriented XML filtering systems. The XFilter system [Altinel and Franklin 2000] was the first published FSM-based XML filtering approach. XFilter used a separate FSM per pa ...

**Keywords:** Nondeterministic Finite Automaton, XML filtering, content-based matching, nested path expressions., path sharing, predicate evaluation, structure matching

## 20 [Combining hypertext and structured documents in Grif](#)

 Vincent Quint, Irène Vattion  
December 1993 **Proceedings of the ACM conference on Hypertext**

**Publisher:** ACM Press

Full text available:  pdf(1.02 MB)

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